

PCT

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10/535402

International Application No.

International Filing Date

Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference  
(if desired) (12 characters maximum)

## Box No. I TITLE OF INVENTION

FUEL CELL COMPRISING A MAGNETIC CATHODE WITH STATIC PUMPING

## Box No. II APPLICANT

 This person is also inventor

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

COMMISSARIAT A L'ENERGIE ATOMIQUE  
31-33 Rue de la Federation  
F-75752 PARIS  
France

Telephone No.

Facsimile No.

Teleprinter No.

Applicant's registration No. with the Office

State (that is, country) of nationality:

FRANCE

State (that is, country) of residence:

FRANCE

This person is applicant  all designated States  all designated States except the United States of America  the United States of America only  the States indicated in the Supplemental Box

## Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

MARSACQ Didier  
12 rue Jean Prevost  
F-38000 GRENOBLE  
France

This person is:

- applicant only
- applicant and inventor
- inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

FRANCE

State (that is, country) of residence:

FRANCE

This person is applicant for  all designated States  all designated States except the United States of America  the United States of America only  the States indicated in the Supplemental Box

 Further applicants and/or (further) inventors are indicated on a continuation sheet.

## Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE

The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:

 agent common representative

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

Gerard HECKE / Marie-Andree JOUVRAY

Cabinet HECKE

WTC Europole, 5 place Robert Schuman - BP 1537

F-38025 GRENOBLE Cedex 1

FRANCE

Telephone No.  
+ 33 4 76 84 95 45Facsimile No.  
+ 33 4 76 84 95 48

Teleprinter No.

Agent's registration No. with the Office

Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

## Continuation of Box No. III

## FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

If none of the following sub-boxes is used, this sheet should not be included in the request.

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

NAYOZE Christine  
 "Les Caravelles"  
 140 Bd Joliot Curie  
 F-38600 FONTAINE  
 France

This person is:

applicant only  
 applicant and inventor  
 inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

FRANCE

State (that is, country) of residence:

FRANCE

This person is applicant for  all designated States  all designated States except the United States of America  the United States of America only  the States indicated in the Supplemental Box for the purposes of:

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

ROUX Christel  
 La Terrasse  
 F-38210 SAINT-QUENTIN-SUR-ISERE  
 France

This person is:

applicant only  
 applicant and inventor  
 inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

FRANCE

State (that is, country) of residence:

FRANCE

This person is applicant for  all designated States  all designated States except the United States of America  the United States of America only  the States indicated in the Supplemental Box for the purposes of:

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

FRANCO Alejandro  
 13 Avenue du 08 mai 1945, Porte 28  
 F-38130 ECHIROLLES  
 France

This person is:

applicant only  
 applicant and inventor  
 inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

ARGENTINE

State (that is, country) of residence:

FRANCE

This person is applicant for  all designated States  all designated States except the United States of America  the United States of America only  the States indicated in the Supplemental Box for the purposes of:

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

This person is:

applicant only  
 applicant and inventor  
 inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for  all designated States  all designated States except the United States of America  the United States of America only  the States indicated in the Supplemental Box for the purposes of:

Further applicants and/or (further) inventors are indicated on another continuation sheet.

Box No. V DESIGNATION OF STATES *Mark the applicable check-boxes below; at least one must be marked.*

The following designations are hereby made under Rule 4.9(a):

## Regional Patent

**AP** **ARIPO Patent:** **GH** Ghana, **GM** Gambia, **KE** Kenya, **LS** Lesotho, **MW** Malawi, **MZ** Mozambique, **SD** Sudan, **SL** Sierra Leone, **SZ** Swaziland, **TZ** United Republic of Tanzania, **UG** Uganda, **ZM** Zambia, **ZW** Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT *(if other kind of protection or treatment desired, specify on dotted line)*

**EA** **Eurasian Patent:** **AM** Armenia, **AZ** Azerbaijan, **BY** Belarus, **KG** Kyrgyzstan, **KZ** Kazakhstan, **MD** Republic of Moldova, **RU** Russian Federation, **TJ** Tajikistan, **TM** Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT

**EP** **European Patent:** **AT** Austria, **BE** Belgium, **BG** Bulgaria, **CH & LI** Switzerland and Liechtenstein, **CY** Cyprus, **CZ** Czech Republic, **DE** Germany, **DK** Denmark, **EE** Estonia, **ES** Spain, **FI** Finland, **FR** France, **GB** United Kingdom, **GR** Greece, **HU** Hungary, **IE** Ireland, **IT** Italy, **LU** Luxembourg, **MC** Monaco, **NL** Netherlands, **PT** Portugal, **RO** Romania, **SE** Sweden, **SI** Slovenia, **SK** Slovakia, **TR** Turkey, and any other State which is a Contracting State of the European Patent Convention and of the PCT

**OA** **OAPI Patent:** **BF** Burkina Faso, **BJ** Benin, **CF** Central African Republic, **CG** Congo, **CI** Côte d'Ivoire, **CM** Cameroon, **GA** Gabon, **GN** Guinea, **GQ** Equatorial Guinea, **GW** Guinea-Bissau, **ML** Mali, **MR** Mauritania, **NE** Niger, **SN** Senegal, **TD** Chad, **TG** Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT *(if other kind of protection or treatment desired, specify on dotted line)*

National Patent *(if other kind of protection or treatment desired, specify on dotted line):*

<input type="checkbox"/> <b>AE</b> United Arab Emirates .....	<input type="checkbox"/> <b>HR</b> Croatia .....	<input type="checkbox"/> <b>OM</b> Oman .....
<input type="checkbox"/> <b>AG</b> Antigua and Barbuda .....	<input type="checkbox"/> <b>HU</b> Hungary .....	<input type="checkbox"/> <b>PG</b> Papua New Guinea .....
<input type="checkbox"/> <b>AL</b> Albania .....	<input type="checkbox"/> <b>ID</b> Indonesia .....	<input type="checkbox"/> <b>PH</b> Philippines .....
<input type="checkbox"/> <b>AM</b> Armenia .....	<input type="checkbox"/> <b>IL</b> Israel .....	<input type="checkbox"/> <b>PL</b> Poland .....
<input type="checkbox"/> <b>AT</b> Austria .....	<input type="checkbox"/> <b>IN</b> India .....	<input type="checkbox"/> <b>PT</b> Portugal .....
<input type="checkbox"/> <b>AU</b> Australia .....	<input type="checkbox"/> <b>IS</b> Iceland .....	<input type="checkbox"/> <b>RO</b> Romania .....
<input type="checkbox"/> <b>AZ</b> Azerbaijan .....	<input checked="" type="checkbox"/> <b>JP</b> Japan .....	<input type="checkbox"/> <b>RU</b> Russian Federation .....
<input type="checkbox"/> <b>BA</b> Bosnia and Herzegovina .....	<input type="checkbox"/> <b>KE</b> Kenya .....	
<input type="checkbox"/> <b>BB</b> Barbados .....	<input type="checkbox"/> <b>KG</b> Kyrgyzstan .....	<input type="checkbox"/> <b>SC</b> Seychelles .....
<input type="checkbox"/> <b>BG</b> Bulgaria .....	<input type="checkbox"/> <b>KP</b> Democratic People's Republic of Korea .....	<input type="checkbox"/> <b>SD</b> Sudan .....
<input type="checkbox"/> <b>BR</b> Brazil .....	<input type="checkbox"/> <b>KR</b> Republic of Korea .....	<input type="checkbox"/> <b>SE</b> Sweden .....
<input type="checkbox"/> <b>BY</b> Belarus .....	<input type="checkbox"/> <b>KZ</b> Kazakhstan .....	<input type="checkbox"/> <b>SG</b> Singapore .....
<input type="checkbox"/> <b>BZ</b> Belize .....	<input type="checkbox"/> <b>LC</b> Saint Lucia .....	<input type="checkbox"/> <b>SK</b> Slovakia .....
<input type="checkbox"/> <b>CA</b> Canada .....	<input type="checkbox"/> <b>LK</b> Sri Lanka .....	<input type="checkbox"/> <b>SL</b> Sierra Leone .....
<input type="checkbox"/> <b>CH &amp; LI</b> Switzerland and Liechtenstein .....	<input type="checkbox"/> <b>LR</b> Liberia .....	<input type="checkbox"/> <b>SY</b> Syrian Arab Republic .....
<input checked="" type="checkbox"/> <b>CN</b> China .....	<input type="checkbox"/> <b>LS</b> Lesotho .....	<input type="checkbox"/> <b>TJ</b> Tajikistan .....
<input type="checkbox"/> <b>CO</b> Colombia .....	<input type="checkbox"/> <b>LT</b> Lithuania .....	<input type="checkbox"/> <b>TM</b> Turkmenistan .....
<input type="checkbox"/> <b>CR</b> Costa Rica .....	<input type="checkbox"/> <b>LU</b> Luxembourg .....	<input type="checkbox"/> <b>TN</b> Tunisia .....
<input type="checkbox"/> <b>CU</b> Cuba .....	<input type="checkbox"/> <b>LV</b> Latvia .....	<input type="checkbox"/> <b>TR</b> Turkey .....
<input type="checkbox"/> <b>CZ</b> Czech Republic .....	<input type="checkbox"/> <b>MA</b> Morocco .....	<input type="checkbox"/> <b>TT</b> Trinidad and Tobago .....
<input type="checkbox"/> <b>DE</b> Germany .....	<input type="checkbox"/> <b>MD</b> Republic of Moldova .....	<input type="checkbox"/> <b>TZ</b> United Republic of Tanzania .....
<input type="checkbox"/> <b>DK</b> Denmark .....	<input type="checkbox"/> <b>MG</b> Madagascar .....	<input type="checkbox"/> <b>UA</b> Ukraine .....
<input type="checkbox"/> <b>DM</b> Dominica .....	<input type="checkbox"/> <b>MK</b> The former Yugoslav Republic of Macedonia .....	<input checked="" type="checkbox"/> <b>UG</b> Uganda .....
<input type="checkbox"/> <b>DZ</b> Algeria .....		<input type="checkbox"/> <b>US</b> United States of America .....
<input type="checkbox"/> <b>EC</b> Ecuador .....	<input type="checkbox"/> <b>MN</b> Mongolia .....	<input type="checkbox"/> <b>UZ</b> Uzbekistan .....
<input type="checkbox"/> <b>EE</b> Estonia .....	<input type="checkbox"/> <b>MW</b> Malawi .....	<input type="checkbox"/> <b>VC</b> Saint Vincent and the Grenadines .....
<input type="checkbox"/> <b>ES</b> Spain .....	<input type="checkbox"/> <b>MX</b> Mexico .....	<input type="checkbox"/> <b>VN</b> Viet Nam .....
<input type="checkbox"/> <b>FI</b> Finland .....	<input type="checkbox"/> <b>MZ</b> Mozambique .....	<input type="checkbox"/> <b>YU</b> Serbia and Montenegro .....
<input type="checkbox"/> <b>GB</b> United Kingdom .....	<input type="checkbox"/> <b>NI</b> Nicaragua .....	<input type="checkbox"/> <b>ZA</b> South Africa .....
<input type="checkbox"/> <b>GD</b> Grenada .....	<input type="checkbox"/> <b>NO</b> Norway .....	<input type="checkbox"/> <b>ZM</b> Zambia .....
<input type="checkbox"/> <b>GE</b> Georgia .....	<input type="checkbox"/> <b>NZ</b> New Zealand .....	<input type="checkbox"/> <b>ZW</b> Zimbabwe .....
<input type="checkbox"/> <b>GH</b> Ghana .....		
<input type="checkbox"/> <b>GM</b> Gambia .....		

Check-boxes reserved for designating States which have become party to the PCT after issuance of this sheet:

.....

.....

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**Precautionary Designation Statement:** In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except the designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. *(Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)*

**Box No. VI PRIORITY CLAIM**

The priority of the following earlier application(s) is hereby claimed:

Filing date of earlier application (day/month/year)	Number of earlier application	Where earlier application is:		
		national application: country or Member of WTO	regional application: * regional Office	international application: receiving Office
item (1) 04/12/2002	02 15253	FRANCE		
item (2)				
item (3)				
item (4)				
item (5)				

Further priority claims are indicated in the Supplemental Box.

The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (*only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office*) identified above as:

all items     item (1)     item (2)     item (3)     item (4)     item (5)     other, see  
Supplemental Box

\*Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)): .....

**Box No. VII INTERNATIONAL SEARCHING AUTHORITY**

**Choice of International Searching Authority (ISA)** (*if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used*):

ISA /EP .....

**Request to use results of earlier search; reference to that search** (*if an earlier search has been carried out by or requested from the International Searching Authority*):

Date (day/month/year)	Number	Country (or regional Office)
04/12/2002	02 15253	FRANCE

**Box No. VIII DECLARATIONS**

The following declarations are contained in Boxes Nos. VIII (i) to (v) (*mark the applicable check-boxes below and indicate in the right column the number of each type of declaration*):

		Number of declarations
<input type="checkbox"/> Box No. VIII (i)	Declaration as to the identify of the inventor	:
<input type="checkbox"/> Box No. VIII (ii)	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	:
<input type="checkbox"/> Box No. VIII (iii)	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	:
<input type="checkbox"/> Box No. VIII (iv)	Declaration of inventorship (only for the purposes of the designation of the United States of America)	:
<input type="checkbox"/> Box No. VIII (v)	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty:	:

## Box No. IX CHECK LIST; LANGUAGE OF FILING

This international application contains:		This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):		Number of items
(a) in paper form, the following number of sheets:				
request (including declaration sheets)	: 5	<input type="checkbox"/>	fee calculation sheet	:
description (excluding sequence listings and/or tables related thereto)	: 8	<input checked="" type="checkbox"/>	original separate power of attorney	: 1
claims	: 2	<input type="checkbox"/>	original general power of attorney	:
abstract	: 1	<input type="checkbox"/>	copy of general power of attorney; reference number, if any:	:
drawings	: 3	<input type="checkbox"/>	statement explaining lack of signature	:
<b>Sub-total number of sheets</b>	<b>: 19</b>	<input type="checkbox"/>	priority document(s) identified in Box No. VI as item(s):	:
sequence listings	:	<input type="checkbox"/>	translation of international application into (language):	:
tables related thereto	:	<input type="checkbox"/>	separate indications concerning deposited microorganism or other biological material	:
(for both, actual number of sheets if filed in paper form, whether or not also filed in computer readable form; see (c) below)	:	<input type="checkbox"/>	sequence listing in computer readable form (indicate type and number of carriers)	:
<b>Total number of sheets</b>	<b>: 19</b>	(i) <input type="checkbox"/>	copy submitted for the purposes of international search under Rule 13ter only (and not as part of the international application)	:
(b) <input type="checkbox"/> only in computer readable form (Section 801(a)(i))		(ii) <input type="checkbox"/>	(only where check-box (b)(i) or (c)(i) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter	:
(i) <input type="checkbox"/> sequence listings		(iii) <input type="checkbox"/>	together with relevant statement as to the identity of the copy or copies with the sequence listings mentioned in left column	:
(ii) <input type="checkbox"/> tables related thereto		10. <input type="checkbox"/>	tables in computer readable form related to sequence listings (indicate type and number of carriers)	:
(c) <input type="checkbox"/> also in computer readable form (Section 801(a)(ii))		(i) <input type="checkbox"/>	copy submitted for the purposes of international search under Section 802(b-quater) only (and not as part of the international application)	:
(i) <input type="checkbox"/> sequence listings		(ii) <input type="checkbox"/>	(only where check-box (b)(ii) or (c)(ii) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Section 802(b-quater)	:
(ii) <input type="checkbox"/> tables related thereto		(iii) <input type="checkbox"/>	together with relevant statement as to the identity of the copy or copies with the tables mentioned in left column	:
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the		11. <input checked="" type="checkbox"/>	other (specify): Search Report	: 1
<input type="checkbox"/> sequence listings				
<input type="checkbox"/> tables related thereto				
(additional copies to be indicated under item 9(ii), in right column)				

Figure of the drawings which should accompany the abstract: 1

Language of filing of the international application: French

## Box No. X SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).

Marie-Andree JOUVRAY  
 Cabinet HECKE  
 WTC Europeole - 5 Place Robert Schuman  
 BP 1537  
 38025 Grenoble Cedex 1, France (FR)

Grenoble, le 02 December 2003

2. Drawings:

 received: not received:

For receiving Office use only		
1. Date of actual receipt of the purported international application:		2. Drawings:  <input type="checkbox"/> received:  <input type="checkbox"/> not received:
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:		
4. Date of timely receipt of the required corrections under PCT Article 11(2):		
5. International Searching Authority (if two or more are competent): ISA /		
6. <input type="checkbox"/>	Transmittal of search copy delayed until search fee is paid	

For International Bureau use only

Date of receipt of the record copy by the International Bureau:

See Notes to the request form